LAND APPLICATION SITE THOMAS J. MARIANNINO LUTJM 1-4 LUNENBURG COUNTY

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BI	OSOLIDS AND INDUSTRIAL RESIDUALS THOMAS ◆ JOSEPH / DE
4 This land application agreement is made on 7-1-13	
here as "Landowner", and Recyc Systems, Inc., referr	red to here as the "Permittee". This agreement
remains in effect until it is terminated in writing by either party	y pr, with respect to those parcels that are retained by
the Landowner in the event of a sale of one or more parcels, individual parcels identified in this agreement changes, those	a parcels for which ownership has changed will no
longer be authorized to receive biosolids or industrial residua	
Landowner:	
The Landowner is the owner of record of the real property loc the agricultural, silvicultural or reclamation sites identified bel	cated in Luxucustage Covirginia, which includes
attached as Exhibit A.	Ow in Table 1 and Identified on the tax map(s)
Table 1.: Parcels authorized to receive biosolids, water	r treatment residuals or other industrial sludges
Tax Parcel ID Tax Parcel ID	Tax Parcel ID Tax Parcel ID
TM5100.844	
TM 51 (A) P+5	
TM 64(A), P 2	
į	· ·
Additional parcels containing Land Application Sites are identified on Supplication	ement A (check if applicable)
Check one: The Landowner is the sole owner of The Landowner is one of multiple ow	the properties identified herein
in the event that the Landowner sells or transfers all or part o	
within 38 months of the latest date of biosolids application, the	e Landowner shall:
:. Notify the purchaser or transferee of the applicable p	ublic access and crop management restrictions no
iater than the date of the property transfer; and	
Notify the Permittee of the sale within two weeks follow	•
The Landowner has no other agreements for land application	on the fields identified herein. The Landowner wil
natify the Permittee immediately if conditions change such the	at the fields are no longer available to the Permittee
for application or any part of this agreement becomes invalid incorrect.	or the illight adolt hereit contained becomes
	land analy engineers on appointed holow, on the
The Landowner hereby grants permission to the Permittee to agricultural sites identified above and in Exhibit A. The Lando	name apply residuals as specified below, on the owner also grants hermission for DEO staff to conduct
inspections on the land identified above, before, during or after	er land application of permitted residuals for the
purpose of determining compliance with regulatory requireme	ents applicable to such application.
	rocessing waste Other industrial sludges
A Yes ☐ No	_ □ No.
My Jack Ma	mennine 365 Nousand Brode Re
andowner - Printed Name, Title Signature	Majiing Address & Phope Number
THOMAS J. MARIAUNINO DESEPHINE A. MA	PRIANDIAN Chare Cuty Uc. 23
Permittee:	
Recyc Systems, Inc. the Parmittee, agrees to apply biosolids a manner authorized by the VPA Permit Regulation and in amounts no	of to exceed the rates identified in the nutrient management
eact prepared for each land application field by a person certified in	accordance with §10.1-104.2 of the Code of Virginia
The Permittee agrees to notify the Landowner or the Landowner's disperitioally prior to any particular application to the Landowner's land	esignee of the proposed schedule for land application and
	•
I reviewed the document(s) assigning signatory authority to the procument(s) available to DEO for review upon request. (Do not shed	k this cox if the landowner signs this agreement.
	;
# Trula	PO Box 562 Remington, Virginia 22734
Permittee Authorized Representative Signature	Mailing Address
Printed Name	·

44 - 142 12

		•					
Peri	mittee: _	Recyc Systems, In-	<u> </u>	County or City:	LUNEUBU	es Co.	
Lan	downer	THOMAS + JOSEAN	IDE MARIA	DUI NO			
Lan	downe	r Site Management R	lequirements:		•		
i the appli	Landowi cation of	ner, I have received a DEQ biosolids, the components	Biosolids Fact She of biosolids and pro	et that includes info per handling and la	rmation regarding nd application of b	regulations gove piosolids.	rning the land
:dent	ified belo	en expressly advised by the w must be complied with a consible for the implemental	fter biosolids have b	een applied on my	equirements and a property in order to	site access restric o protect public h	itions ealth, and
	ee to impl lids at the	ement the following site ma e site.	anagement practice	s at each site under	my ownership fal	lowing the land a	oplication of
•	Notifica biosolid comple	tion Signs: I will not remove Is land application site, unle ted.	e any signs posted ess requested by the	by the Permittee fo. e Permittee, until at	r the purpose of id least 30 days afte	entifying my field r land application	as a at that site is
2	b.	Access Public access to land with any application of biosolid Public access to land with application of biosolids. It same period of time unless that grown on land where when the harvested turf is otherwise specified by DE	ds. n a low potential for No biosolids amendi ss adequate provisio biosolids are applic s placed on either la	public exposure sha ed soil shall be exca ons are made to pre ed shall not be harve	all be restricted for avated or removed vent public exposi- ested for one year	at least 30 days from the site dur ure to soil, dusts of after application	following any ing this or aerosols: of biosolids
3.	Crop Re a b. c. d e	estrictions: Food crops with harvester not be harvested for 14 m Food crops with harvester application of biosolids with months prior to incorporal Food crops with harvester biosolids remain on the late Other food crops and fibe Feed crops shall not be n animals).	conths after the application the biosolids re- tion into the soil, of parts below the soil, of parts below the soil, of surface for a time or croos shall not be	ication of biosolids. Ifface of the land shi main on the land sui Ifface of the land shi a period of less than harvested for 30 da	all not be harveste face for a time pe all not be harveste n four (4) months p ys after the apolic	ed for 20 months a riod of four (4) or ed for 38 months a prior to incorporation of biosolids	after the more when the
‡	Foll a.	k Access Restrictions: owing biosolids application Meat producing livestock Lactating dairy animals sh Other animals shall be res	shall not be grazed to sail not be grazed fo	for 30 days, r a minimum of 60 c	lays.		
5	applicati	nental commercial fertilizer ons such that the total crop ed by a person certified in a	needs for nutrients	are not exceeded a	as identified in the	lids and industrial nutrient manager	residuals nent plan
* -\{\	vears fol	because it has been showing the application of biacre (0.5 kilograms/hectare	iosolids or industrial	dmium, should not residuals which bea	be grown on the L ar cadmium equal	andowner's land to or exceeding 0	or three .45
1	Landovy	ner's Signature	4			Date	
2	Parm Op	Perator Signature	Josephin	e Mor	ailing Address & Pho	ne Numper	
_	1 '		~1		g	······································	

Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee:

Recyc Systems Inc.

Site Name:

Thomas J. Mariannino

County or City:

Lunenburg

Please Print

Signature not required on this page

Tax Parcel ID(s)	<u>Landowners (s)</u>
51-A-44	Thomas J. and Josephine A. Mariannino
51-A-45	Thomas J. and Josephine A. Mariannino
64-A-2	Thomas J. and Josephine A. Mariannino

FARM DATA SHEET

SITE NAME:	Thomas J. Mariannino	COUNTY:	Lunenburg
OWNER:	Thomas J. and Josephine A. Mariannino	OPERATOR:	Thomas J. Mariannino
OWNER'S	345 Newcomb Bridge Rd.	OPERATOR'S	345 Newcomb Bridge Rd.
ADDRESS:	Chase City, VA 23924	ADDRESS:	Chase City, VA 23924
OWNER'S TELEPHONE:	434-372-4397	OPERATOR'S TELEPHONE:	434-372-4397
GENERAL FARM TYPE:	Hay/Pasture	CELL PHONE:	434-738-5710
# CATTLE:	100	EMAIL:	-
LAGOON or SLURRY:	None	LATITUDE:	36°52′29″N
TOPO QUAD:	Chase City	LONGITUDE:	78°27′37″W
COMMENTS:			
	.	,	·
			BB€ĭ

RECYC SYSTEMS, INC FIELD DATA SHEET

Field	Gross	Env	ironmentally	Sensitive S	oils		Tax	FSA
Identification	Acres	Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood	Hydro Map	Map#	Tract #
	7 10 110 1	3B DecMar.		- Carmedani	110411000	Iviap	тар ж	T 2703
LUTJM 1	32.3	6 NovApr.	3B	-	6 JanDec.	CM 02	TM 51-A-44	F 1
						1		T 2703
LUTJM 2	24.2	6 NovApr.	21D2	_	6 JanDec.	CM 02	TM 51-A-44	F 2, 3, 4
					1 -		TM 51-A-45	T 16492
LUTJM 3	32.7	6 NovApr.	-	-	6 JanDec.	CM 02	TM 64-A-2	F 1, 2
		3B DecMar.					TM 51-A-45	T 16492
LUTJM 4	32.6	6 NovApr.	-	-	6 JanDec.	CM 02	TM 64-A-2	F 3, 4, 5
		,						
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TOTAL ACRES IN								
SITE	121.8							

'irginia Cooperative Extension Soil Test Report

Questions? Contact: Mecklenburg County Office P.O. Box 420 Boydton, VA 23917-0420 434-738-6191

Virginia Tech Soil Testing Laboratory 145 Smyth Hall (0465) Blacksburg, VA 24061 www.soiltest.vt.edu

SEE	NOTES:	 	
1	3		

Fet 32 House

SUNNYFIELD FARM TOM MARIANNINO 345 NEWCOMB BRIDGE RD CHASE CITY, VA 23924

SAMPLE HISTORY

0 0

Sample ID	Field	LAST CROP		T LIME ICATION	SOIL INFORMATION					
	ID	Name	Yield	Months Prev.	Tons/Acre	SMU-1 %	SMU-2 %	SMU-3 %	Yield Estimate	Productivity Group
FRT32	THE !			13-18	1.1-2.0					

LAB TEST RESULTS (see Note 1) P (1b/A) K (lb/A) Ca (lb/A) Mg (lb/A) Zn (ppm) Mn (ppm) Cu (ppm) Fe (ppm) B (ppm) S.Salts (ppm) Analysis Result 15 143 719 195 1.3 8.0 0.5 31.1 0.1 Rating M-M L+H+ SUFF SUFF SUFF SUFF SUFF

Analysis	Soil	Buffer	EstCEC	Acidity	Base Sat.	Ca Sat.	Mg Sat.	K Sat.	Organic
	pH	Index	(meq/100g)	(%)	(%)	(%)	(%)	(%)	Matter (%)
Result	5.5	6.01	5.1	45.4	54.6	35.2	15.8	3.6	

FERTILIZER AND LIMESTONE RECOMMENDATIONS

vp: Orchardgrass/Fescue-Clover Establishment (31)

Lime, To	ONS/AC	Fertilizer, lb/A				
Amount	Amount Type		P205	K20		
2.25	AG	40	140	130		

620. For best results, the lime should be applied six months to one year ahead of time.

232/Q3P 6|boe!L 3P !sfdpn n foebyjpot!x jmtvqqrzlui floffefelovusjfout!gps!ftubcriti n foulboe!pof!i bswftulzfbs/t!hspx ui /

934/!!Bqqra!uiflojusphfo!buluif!ujnfluif!hsbttljt!tffefeljo!rbuf!tvnnfs!fbsra!gprrps!fbsra!tqsjoh/!!Pwfstffeluif!hsbtt!xjui!dpwfsluif!gprrpxjoh! Of csvbsz/

:: 1/IX f!bsf!uszjoh!upljn qspwf!pvs!tfswjdf/IQMFBTF!ubl f!b!n pn foutup!dpn qrfuf!pvs!csjfg!!bopozn pvt!dvtupn fs!tvswfz!bul ujozvsm/don Otpjnoftutvswfz

:: 2/!Ovn.cfsfelopuft!bsf!vijfx.bcm?!buliuuq;00xxx/tpjncftu/wu/fev002jmft0qvcm/dbujpot/iun.m

K20 140

irginia Cooperative Extension Soil Test Report

Questions? Contact: Mecklenburg County Office P.O. Box 420 Boydton, VA 23917-0420 434-738-6191 Virginia Tech Soil Testing Laboratory
145 Smyth Hall (0465)
Blacksburg, VA 24061
www.soiltest.vt.edu

SE	E NOTES:	 	
1	-3		

Back fields House

v W O SUNNYFIELD FARM TOM MARIANNINO 345 NEWCOMB BRIDGE RD CHASE CITY, VA 23924 C F O O P R Y

SAMPLE HISTORY

ľ	Sample Field LAST CROP		SAMPL	LAST LIME APPLICATION		SOIL INFORMATION				}	
ID		ID.	Name	Yield	Months Prev.	Tons/Acre	SMU-1 %	SMU-2 %	SMU-3 %	Yield Estimate	Productivity Group
	BF2	LUTJM Z	Orchardgrass/Fescue-Clover Establishment (31)			,					

LAB TEST RESULTS (see Note 1)

ئــا	Apalysia	P(1b/A)	K (16/A)	Ca (Ib/A)	Mg (lb/A)	Zn (ppm)	Mn (ppm)	Ca (ppm)	Fe (ppm)	В (ррт)	S.Salts (ppm)
ا د	Result	В	99	1085	214	1.5	12.9	0.7	45.6	0.3	
	Rating	L	M-	M	H +	SUFF	SUPP	SUFF	SUFF	SUPF	

	Solit	Buffer	Est-CEC	Addity	Base Sat.	Ca Sat.	Mg Sat.	K Sat.	Organic
Analysia	рH	Index	(meq/1002)g	(%)	(%)	(%)	(%)	(%)	Matter (%)
Result	588	6.009	566	33.1	66.9	48.7	15.9	2.3	

FERTILIZER AND LIMESTONE RECOMMENDATIONS

vp: Orchardgrass/Fescue-Clover Establishment (31)

Lime, To	ONS/AC		Fertilizer, lb/A	·
Amount	Туре	N	P205	
2	AG	40	160	

- 121. P2O5 and K2O recommendations will supply the needed nutrients for establishment and one harvest year's growth.
- 823. Apply the nitrogen at the time the grass is seeded in late summer, early fall or early spring. Overseed the grass with clover the following February.
- 990. We are trying to improve our service. PLEASE take a moment to complete our brief, anonymous customer survey at tinyurl.com/soiltestsurvey
- 991. Numbered notes are viewable at http://www.soiltest.vt.edu/Files/publications.html

Virginia Cooperative Extension Soil Test Report

Questions? Contact: Mecklenburg County Office P.O. Box 420 Boydton, VA 23917-0420 434-738-6191 Virginia Tech Soil Testing Laboratory 145 Smyth Hall (0465) Blacksburg, VA 24061 www.soiltest.vt.edu

SEE	NOTES:		 	
1	3	_		

FRONT Now field

SUNNYFIELD FARM
TOM MARIANNINO
345 NEWCOMB BRIDGE RD

CHASE CITY, VA 23924

RD

SAMPLE HISTORY

0 0

Sample ID	Field	LAST CROP		T LIME ICATION	SOIL INFORMATION					
	ID	Name	Yield		Tons/Acre	SMU-1 %	SMU-2 %	SMU-3	Yield Estimate	Productivity Group
NBR32	WIJM 3	Orchardgrass/Fescue-Clover Establishment (31)								

LAB TEST RESULTS (see Note 1) K (lb/A) Ca (lb/A) Mn (ppm) Cu (ppm) Fe (ppm) B (ppm) S.Salts (ppm) Analysis P (lb/A) Mg (lb/A) Zn (ppm) Result 12 170 1229 340 2.8 23.1 0.5 27.4 0.3 Rating VH SUFF SUFF SUFF SUFF SUFF M-M+ M+

Analysis	Sofi pH	Buffer Index	EstCEC (meg/100g)	Acidity (%)	Base Sat.	Ca Sat. (%)	Mg Sat. (%)	K Sat.	Organic Matter (%)
Result	5.6	5.90	7.7	38.8	61.2	40.1	18.3	2.8	Matter (70)

FERTILIZER AND LIMESTONE RECOMMENDATIONS

rop: Orchardgrass/Fescue-Clover Establishment (31)

Lime, T	ONS/AC		Fertilizer, lb/A	*
Amount	Туре	N	P205	K20
3.25	AG	40	140	120

- 620. For best results, the lime should be applied six months to one year ahead of time.
- 121. P2O5 and K2O recommendations will supply the needed nutrients for establishment and one harvest year's growth.
- 823. Apply the nitrogen at the time the grass is seeded in late summer, early fall or early spring. Overseed the grass with clover the following February.
- 990. We are trying to improve our service. PLEASE take a moment to complete our brief, anonymous customer survey at tinyurl.com/soiltestsurvey
- 991. Numbered notes are viewable at http://www.soiltest.vt.edu/Files/publications.html

Virginia Cooperative Extension Soil Test Report

Questions? Contact: Lunenburg County Office 11409 Courthouse Road General Delivery Lunenburg, VA 23952 434-696-5526 Virginia Tech Soil Testing Laboratory 145 Smyth Hall (0465) Blacksburg, VA 24061 www.soiltest.vt.edu

SEE	NOTES:
1	3

Rear Field Acc. St.

MARIANNINO TOM SUNNYFIELD FARM 345 NEWCOMB BRIDGE RD CHASE CITY , VA 23924 C F O O P R

SAMPLE HISTORY

_				0. 2. 2.	E HISTORI						
Sample ID	Field	LAST CROP		T LIME ICATION	SOIL INFORMATION						
L	ID	ID Name Orchardgrass/Fescue-Clover		Yield	Months Prev.	Tons/Acre	SMU-1 %	SMU-2 %	SMU-3 %	Yield Estimate	Productivity Group
Г	:FAST	штум 4	Orchardgrass/Fescue-Clover Establishment (31)				3B 73	6A 27	5C2 0		

LAB TEST RESULTS (see Note 1) Analysis P (lb/A) K (lb/A) Ca (lb/A) Mg (lb/A) Zn (ppm) Mn (ppm) Со (ррм) Fe (ppm) S.Salts (ppm) B (ppm) Result 15 108 1031 2.0 167 16.6 0.7 83.4 0.3 Rating M-M M H-SUFF SUFF SUFF SUFF SUFF

L	Analysis	Sail~ pH	Buffer - Index	EstCEC (meq/100g)	Acidity (%)	Base Sat. (%)	Ca Sat. (%)	Mg Sat. (%)	K Sat. (%)	Organic Matter (%)
Г	Result	5.4	5.99	5.8	41.7	58.3	44.1	11.8	2.4	

FERTILIZER AND LIMESTONE RECOMMENDATIONS

~-op: Orchardgrass/Fescue-Clover Establishment (31)

Lime, T	ONS/AC
Amount	Туре
2.75	AG

Fertilizer, Ib/A N P205 K20									
N	P205	K20							
40	140	130							

- 620. For best results, the lime should be applied six months to one year ahead of time.
- 121. P2O5 and K2O recommendations will supply the needed nutrients for establishment and one harvest year's growth.
- 823. Apply the nitrogen at the time the grass is seeded in late summer, early fall or early spring. Overseed the grass with clover the following February.
- 990. We are trying to improve our service. PLEASE take a moment to complete our brief, anonymous customer survey at tinyurl.com/soiltestsurvey
- 991. Numbered notes are viewable at http://www.soiltest.vt.edu/Files/publications.html

Page 1 of 2

Report Number: 12-156-0508 Account Number: 70594 CHL.

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO

8455 WHITESHOP RD CULPEPER VA 22701 Grower:

Submitted By: J B CRENSHAW

Farm ID:

MARIANNINO/LUTJM

LUNENBERG

SOIL ANALYSIS REPORT

Analytical Method(s):

Mehlich 3

Date Received: 06/04/2012

Date Of Analysis: 06/05/2012

Date Of Report: 06/06/2012

	l	C	rganic M	atter		Phos	phorus		Pota	mulae	Mag	gnesium	Cal	clum _.	Sodlum		Н	Acidity	C.E.C
Sample ID Field ID	Lab Number	%	Rate	ENR Ibs/A	Mel ppm	lich 3 Rate		erve Rate	ppm	K Rate	ppm	Mg Rate		Ca Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
1A '	03562	2.5	L	95	37	М			44	L	71	Н	313	· L	,	5.1	6.79	1.4	3.6
1B	03554	2.3	L	91	46	М			44	L	70	н	344	L		5.2	6.80	1,3	3.7
2	03555	2.0	L	84	10	VL			63	L	98	Н	437	М		5,5	6.82	1.1	4,3

		Perce	nt Base	Saturati	on n	Nitrate		Sulfur	Zine	C	.Mang	anese	Irc	on	Copper	Boron	Soluble Salts	Chloride	Aluminum
Sample ID	К %	Mg %	Ca %	Na %	:н %	NO ₃ N ppm Ra	e ppn	S Rate	Zn ppm		.M ppm		F ppm		Cu ppm Rate	B ppm Rate	SS ms/cm Rate	CI ppm Rate	Al ppm
1 A	3.11	16.4	43.5	a a	38.0														
18	3.0	15.8	46.5		33.8														
2	3.8	19.0	50.8		25.5														

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), LI (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release, C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

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Pauric McGroary

Page 2 of 2

Report Number: 12-156-0508

Account Number: 70594



A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

MARIANNINO/LUTJM

LUNENBERG

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD Grower:

Submitted By: J B CRENSHAW

Farm ID:

CULPEPER VA 22701

Date Received: 06/04/2012

Date Of Report: 06/06/2012

SOIL FERTILITY RECOMMENDATIONS

Sample IDD Field IDD	Intended Cropp	Yield Good	Lime Tons/A	Nitrogen N Ib/A	Phosphate P ₂ O ₅ Ib/A	Potash K ₂ O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
1A	Adjust phHto 6o86.8	0	2.0				9						
1B	Adjust ppHto 60-86.8	0	2.0				10			,			
2	Adjust p.H.to 6o86.8	0	11.8				0					_	

Comments:

Sample(s) 1A, 1B:

If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sul-PO-Mag.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet (Spring, 2014-Summer, 2016) Thomas J. Mariannino Planner: Recyc Systems, Inc

Tract: 2703

Location: Lunenburg

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

		Size (ac) Total/ Used	Yr.	•	Needs N-P-K	Leg /Man	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appid N-P-K (lbs/ac)	Р	Commercial N-P-K (lbs/ac)	Notes	
_[1	/LUTJM 1(N)	32/32	2014	Grass Pasture	50-80-80	0/0				50-80-80	N/A			
2	2, 3, 4/LUTJM 2(N)	24/24	2014	Grass Pasture	50-30-40	0/0				50-30-40	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 16492 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.		Needs N-P-K (lbs/ac)		Manure/Biosid Rate & Туре (season)	(d)	Man/Blos N-P-K (lbs/ac)	Net = Needs - appid N-P-K (lbs/ac)		Commercial N-P-K (lbs/ac)	Notes	
1, 2/LUTJM 3(N)	33/33	2014	Fescue grass hay mt.	70-50-95	0/0				70-50-95	N/A			
3, 4, 5/LUTJM 4(N)	33/33	2014	Fescue grass hay mt.	90-80-170	0/0				90-80-170	N/A			

Commercial Application Methods: br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K20	Lab	Soil pH	Lime Date	rec. lime tons/Ac
2703	LUTJM 1	32	2014-Wi	M- (15 P lbs/acre)	M (143 K lbs/acre)	Virginia Tech	5.5	•	
2703	LUTJM 2	24	2014-Wi	L (8 P lbs/acre)	M- (99 K lbs/acre)	Virginia Tech			
16492	LUTJM 3	33	2014-Wi	L+ (12 P lbs/acre)	M+ (170 K lbs/acre)	Virginia Tech	5.6		
16492	LUTJM 4	33	2014-Wi	M- (15 P lbs/acre)	M (108 K lbs/acre)	Virginia Tech	5.4		

Field Productivities for Major Orops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalifa	Grass Hay	Environmental Warnings
2703	2703/1	LUTJM 1	32	Georgeville	lVa	III	illi illi	111	
	2703/2, 3, 4	LUTJM 2	24	Georgeville	IV b	111	III	IV	
16492	16492/1, 2	LUTJM 3	33	Georgeville	IV b	III	III	IV	
	1 6492/3 , 4,	LUTJM 4	33	Bolling	11 1126	II	Not Suited	ii .	

Yield Range

Field Productivity Growp	Corn Grain Bu/Acre	Barley/Ihrtensive Wheat Bu//Accre	Std. Wilheat Bu/Acre	Alfalfa Tons//Accre	Grass//Hay Tons//Acre
11	≽170	≽80	≥64	>6	≥ 4.0
11	150-17 0	70-8 0	56-64	4-6	3.5-4.0
W	130-150	60-70	48-56	≼4	3.0-3.5
IV	1 00-13 0	50-6 0	40-48	NA	≼3.0
V .	≤100	≼ 50	< 40	NA	NA

Farm Summary Report

Plan:

New Plan

Spring, 2014 - Summer, 2016

Farm Name:

Thomas J. Mariannino

Location:

Lunenburg

Specialist:

Recyc Systems, Inc.

N-based Acres: 121.8 P-based Acres: 0.0

Tract Name:

2703 FSA Number: 2703

Location:

Lunenburg

Field Name:

LUTJM 1

Total Acres:

32.30 Usable Acres: 32.30

FSA Number: 1

В

Tract:

2703

Location:

Lunenburg

Slope Class:

Hydrologic Group:

В

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE Wi-2014 РΗ

5.5

M-(15 P lbs/acre)

M(143 K lbs/acre)

Lab

Virginia Tech

Soils:

PERCENT

SYMBOL

SOIL SERIES

20	` 3B	Bolling
3	6	Augusta Chewacia Toccoa
25	8B2	Georgeville
29	8C2	Georgeville
14	15B	Masada
9	16C2	Mecklenbura

Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME

2014-Sp 1.8 * acres/AU Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: LUTJM 2

Total Acres: 24.20 Usable Acres: 24.20

FSA Number: 2, 3, 4 Tract: 2703

Location: Lunenburg

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab Wi-2014 5.8 L(8 P lbs/acre) M-(99 K lbs/acre) Virginia Tech

Soils:

PERCENT SYMBOL SOIL SERIES

17 6 Augusta Chewacia Toccoa
37 8B2 Georgeville

28 Georgeville 8C2 19 21D2 Tatum

Field Warnings:

Crop Rotation: PLANTED

YIELD

CROP NAME

2014-Sp

2.4 * acres/AU

Orchard grass/fescue pastures<=25% legume, maint. - No Till

Tract Name:

16492

FSA Number:

16492

Location:

Lunenburg

Field Name:

LUTJM 3

Total Acres:

32.70 Usable Acres: 32.70

FSA Number: 1, 2 Tract:

16492

С

Location:

Lunenburg

Slope Class:

Hydrologic Group:

C

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

PH

M+(170 K lbs/acre)

Lab

Wi-2014

5.6

L+(12 P lbs/acre)

Virginia Tech

Soils:

PERCENT

SYMBOL

SOIL SERIES

9

6 Augusta Chewacla Toccoa

24

8B2

Georgeville

23 8C2 Georgieville 10 15B Massada 16B2 Meldetelchenburg 4 27 16C2 Meldetelehlenburg 2010 PoinRobinxobexter

Field Warnings:

Crop Rotation:

PLANTED YIELD **CROP NAME**

2014-Sp

2.4 * tons

Fescue grass (hay), maint. - No Till

Field Name:

LUTJM 4

Total Acres:

32.60 Usable Acres: 32.60

FSA Number: 3, 4, 5 Tract:

16492

В

Location:

Lunenburg

Slope Class:

Hydrologic Group:

C

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

K

Lab

Wi-2014

PH 5.4

M-(15 P lbs/acre)

M(108 K lbs/acre)

Virginia Tech

Soils:

PERCENT SYMBOMBOL SOI SOIL SERIES

55 3

3B BoilinBolling

5 5B 5B2 Ceccecil

9 5C

5C2 CecCecil

6 Augusta Chewacla Toccoa 11C2 Herndon 29

3

Field Warnings:

Crop Rotation: PLANTED

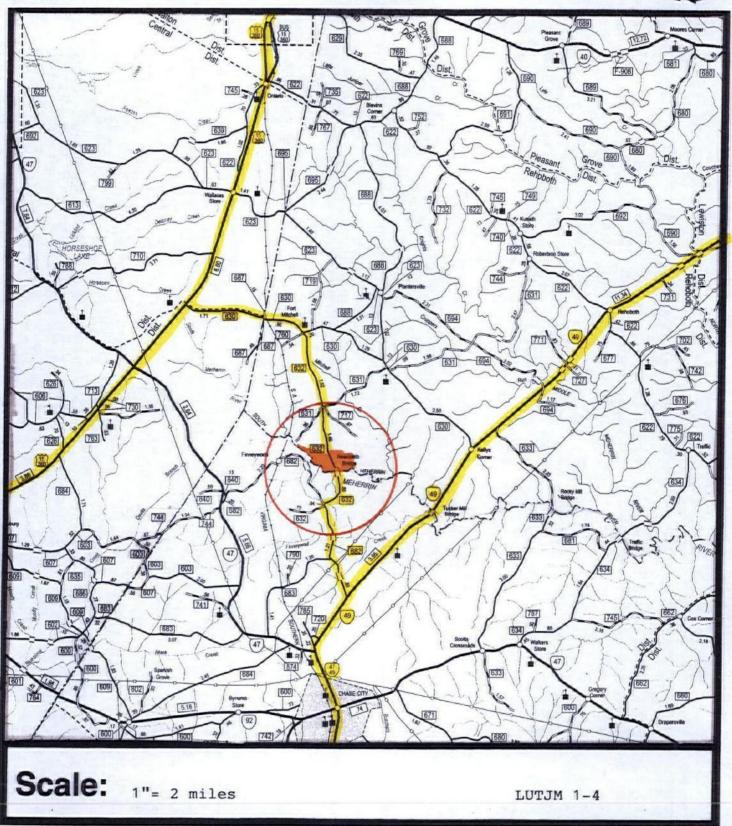
YIELD **CROP NAME**

2014-Sp 3.5 * tons Fescue grass (hay), maint. - No Till

MAPS

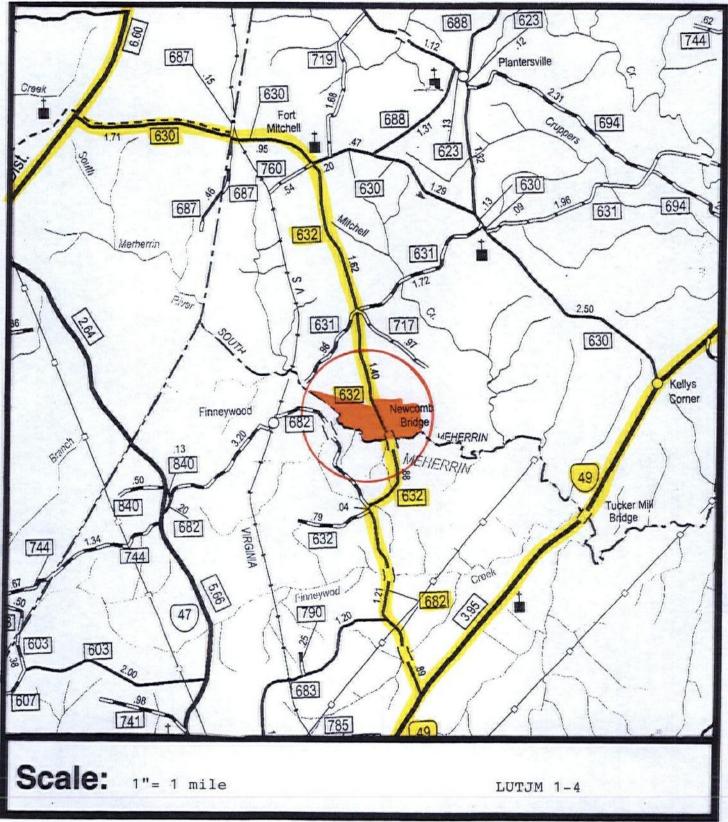
DUBLIC CENTER

(Biosolids Land Application)



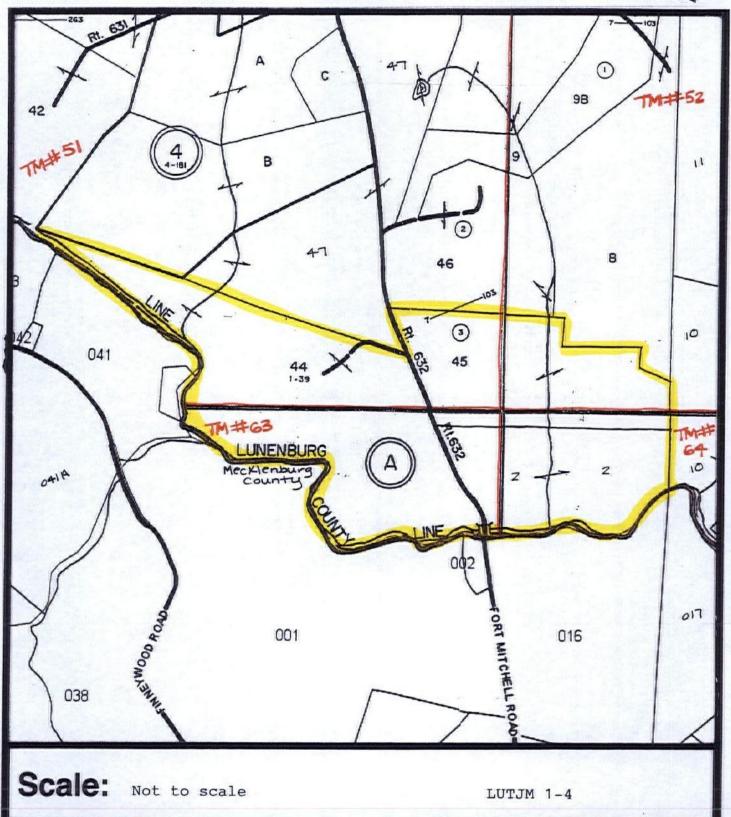
(Biosolids Land Application)





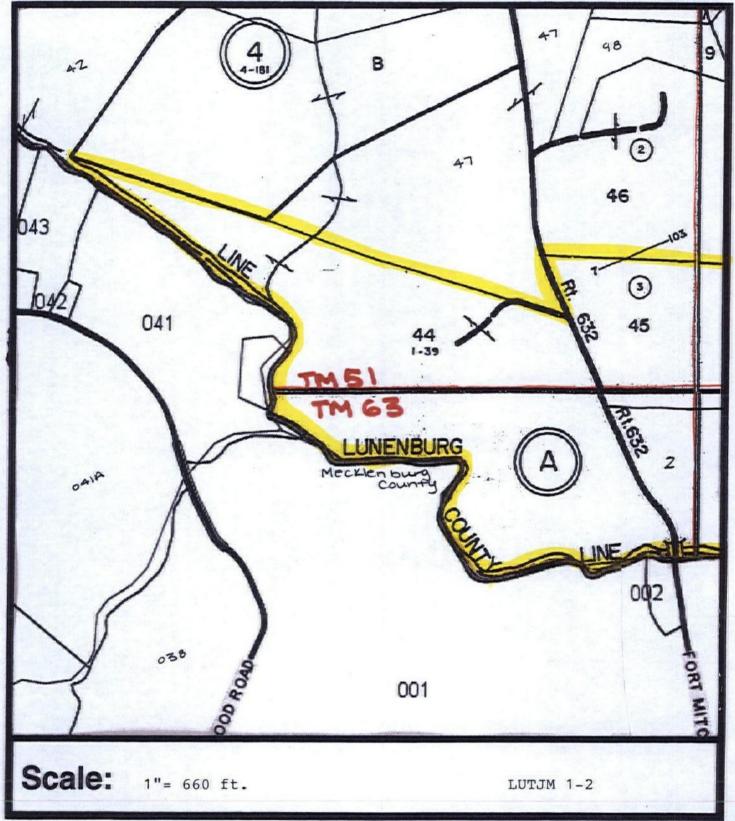
(Biosolids Land Application)





(Biosolids Land Application)



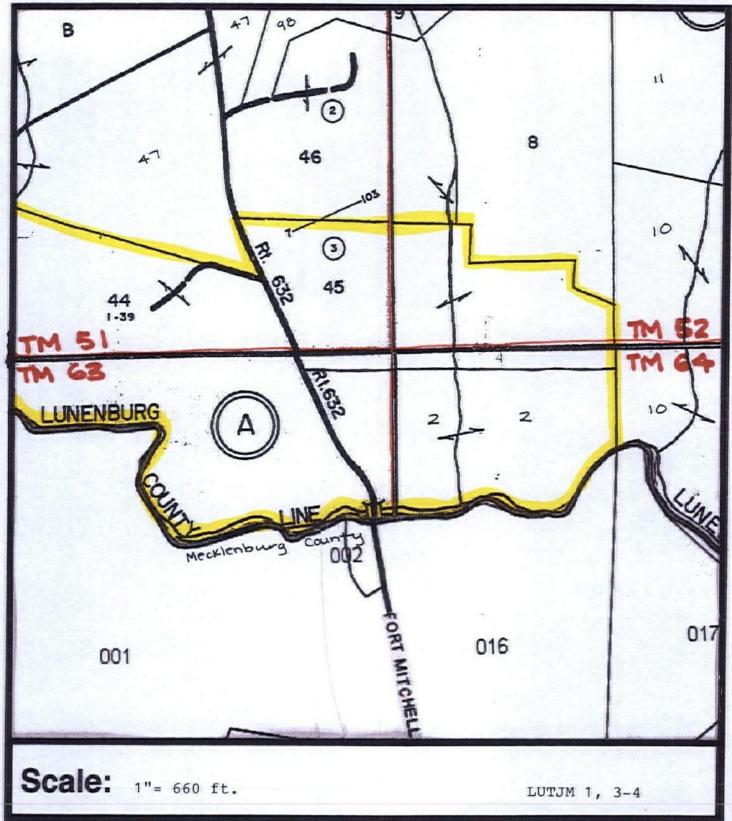


TAX MAP

N

(Biosolids Land Application)





TAX MAP

NA

ADJOINING LANDOWNERS

Thomas J. Mariannino

LUNENBURG COUNTY

Tax Map	Parcel #	Owner Name(s)
51	42	Florence C. Rutledge
	46	Sandra Ann Hazelfeldt
	47	Ronald E. or Frances I. Newcomb
51-4	В	David Craig or Sherry D. Crissman
52	8	Illinois Municipal Retirement Fund
	10	Illinois Municipal Retirement Fund
		MECKLENBURG COUNTY
30-A	41	Dennis T. and Stacy R. Rice
	43	Kevin M. and Melissa M. Price
40-A	1	Forestree GM LLC
	2	Forestree GM LLC
	16	Forestree GM LLC
	17	Thomas N. and Marie A. Snead
		,
_		
	,	

(Biosolids Land Application)





Scale:

1"= 660 ft.

LUTJM 1-4

(Biosolids Land Application)





Scale:

1"= 660 ft.

LUTJM 1-2

Lunenburg County, VA

AERIAL MAP

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area.

Refer to your original demination (CPA-026 and attached maps) for exact wetland

boundaries and determinations, or con:act NRCS,

NA

(Biosolids Land Application)





traduct deformation for there is a second to the second to

Farm: 3830 Tract: 16492

colaimer: Wetland identifiers do not represent the size, shape or specific determination of the area.

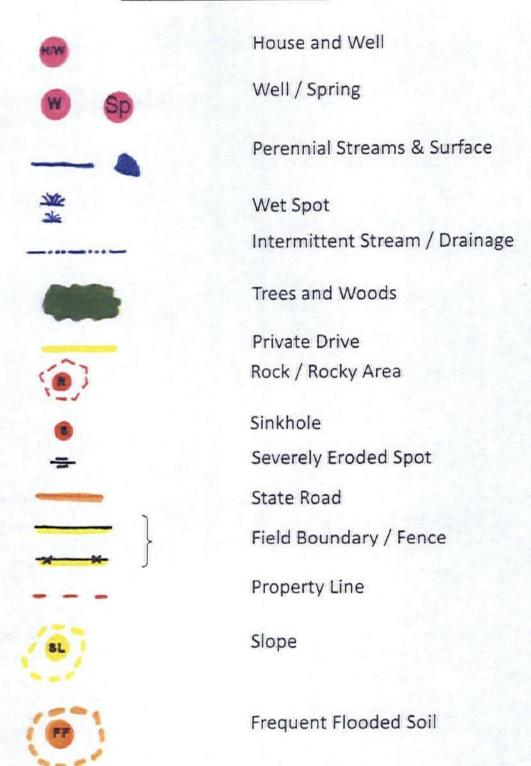
Lunenburg County, VA
fer to your original deminiation (CPA-025 and stached maps) for exact wetland

January 30, 2014

Scale: 1"= 660 ft.

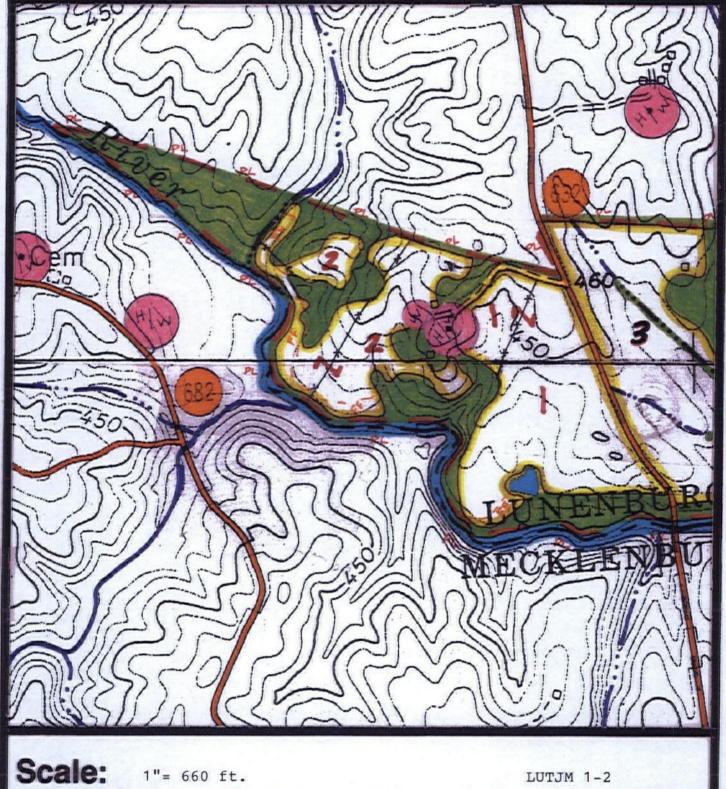
LUTJM 3-4

Legend for Site Plan



(Biosolids Land Application)

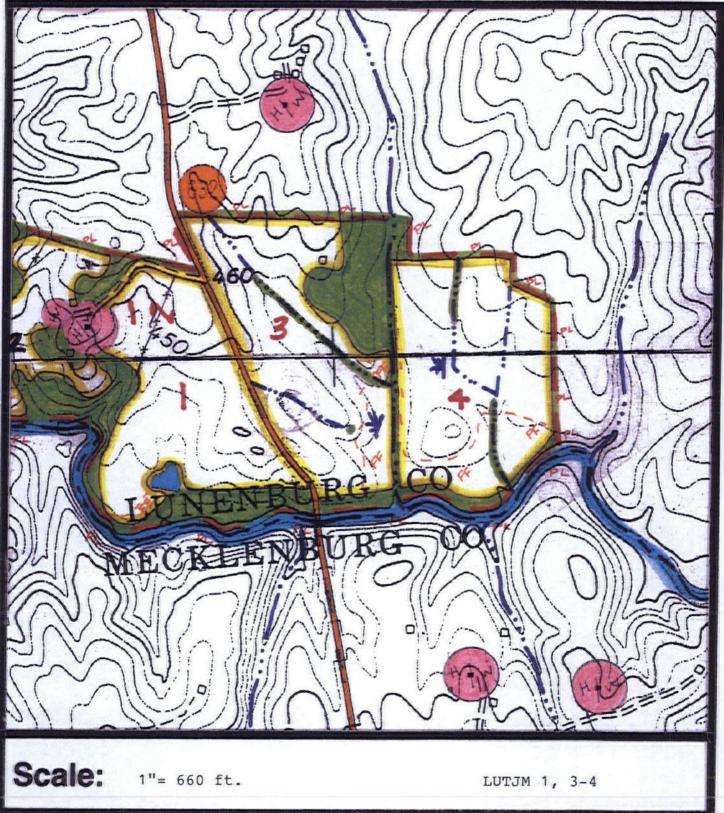




SITE PLAN

(Biosolids Land Application)



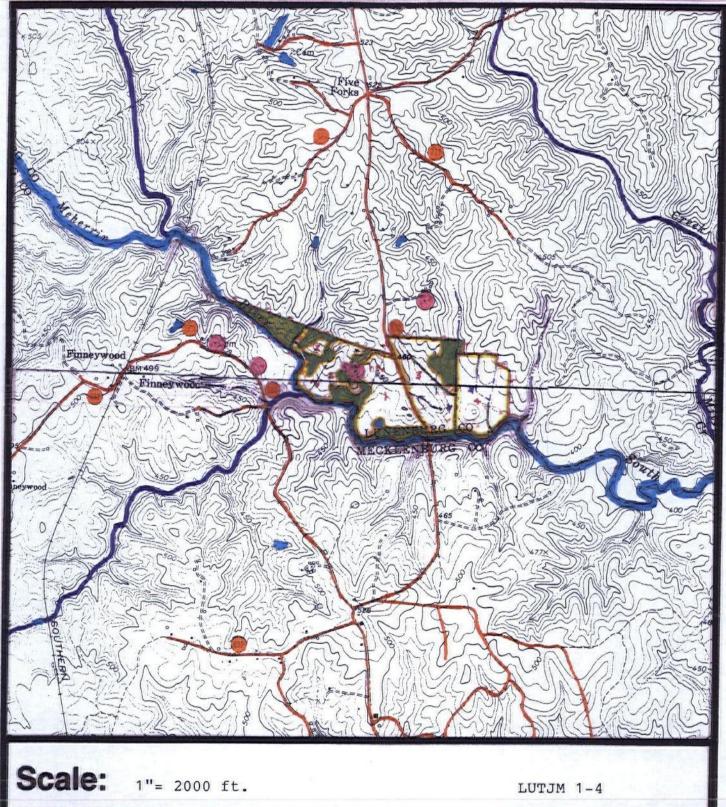


SITE PLAN

MA

(Biosolids Land Application)





TOPOGRAPHIC MAP

MA